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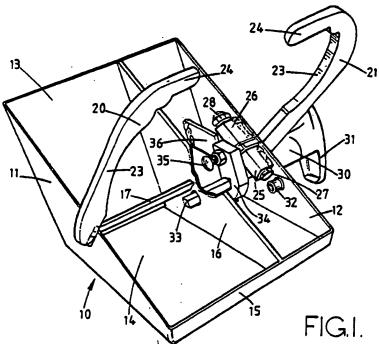
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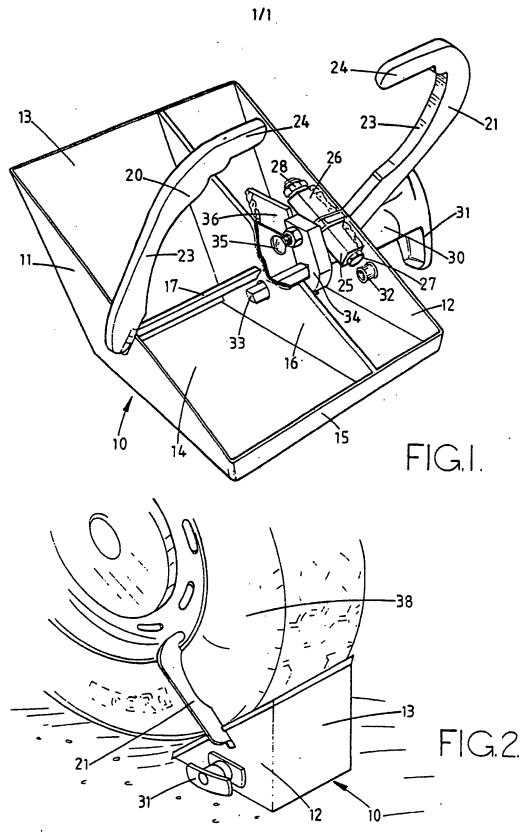
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(54) Motor vehicle wheel clamp

(57) A motor vehicle wheel clamp comprises a triangular chock 10 having end plates 11, 12. A jaw 20 is welded to plate 11 and a jaw 21 is pivotally mounted on plate 12. A lock 30, also mounted on plate 12, has a handle 31 and a shaft 33 which carries a locking member 34. In Fig. 1, locking member 34 is shown retaining jaw 21 in a closed position. In order to release jaw 21, lock 30 is unlocked and handle 31 is turned until jaw 21 can be rotated to an open position. In use, the wheel clamp is mounted on a wheel with jaws 20 and 21 engaging the side surface of the wheel tyre and with jaw 21 locked in its closed





SPECIFICATION

Motor vehicle wheel clamp

5 This invention relates to a device for preventing or deterring the driving of a motor vehicle.

There is a requirement for a device which can be fitted to a vehicle to prevent or deter the driving of the vehicle, the device being 10 additional to conventional door and ignition locks. For example, the owner of a vehicle may wish to attach such a device to his vehicle as an additional security measure to prevent unauthorised persons from driving it.

15 Also, when a vehicle is parked illegally, it may be desired to attach such a device to a vehicle so as to force the driver to pay a penalty before the vehicle is released.

It is accordingly an object of this invention 20 to provide a new or improved device for preventing or deterring the driving of a vehicle.

According to this invention, there is provided a motor vehicle wheel clamp comprising a wheel chock and means for clamping the 25 chock to a motor vehicle wheel.

When the wheel clamp according to this invention is clamped to a motor vehicle wheel, the chock prevents the vehicle from being driven until the wheel clamp has been re30 moved.

In the preferred arrangement, the clamping means comprises a pair of jaws mounted on the chock, at least one of said jaws being moveable between an open position and a 35 closed position, and locking means operable to retain said at least one jaw in the closed position.

Conveniently, one of said jaws is fixedly mounted on the chock and the other of said 40 jaws is moveable between an open position and a closed position.

The chock may be of triangular cross section.

This invention will now be described in 45 more detail, by way of example, with reference to the drawings in which:—

Figure 1 is a perspective view of a motor vehicle wheel clamp embodying this invention with its cover plate removed; and

Figure 2 is a perspective view of the wheel clamp of Fig. 1 secured to a motor vehicle wheel.

Referring now to Fig. 1, the wheel clamp comprises a chock generally indicated at 10 55 and a mechanism for clamping the chock to a motor vehicle wheel.

The chock 10 comprises a pair of triangular steel end plates 11, 12, a pair of rear walls 13, 14, and a lip 15. The walls 13 and 14 60 and the lip 15 are formed from a single piece of steel which is bent so that the walls 13 and 14 are perpendicular to each other and the lip 15 is perpendicular to the wall 14. The walls 13, 14 and lip 15 are welded to the 65 end plates 11, 12. The chock further includes

a triangular plate 16 welded to walls 13 and 14 and lip 15 and a strengthening plate 17, one end of which is welded to end plate 11 and the other end of which is welded to the 70 plate 16. The chock 10 also has a cover plate which is not shown in Fig. 1 and which is welded in position.

The clamping mechanism comprises a pair of jaws 20 and 21. The jaw 20 is welded to 75 the outer surface of end plate 11 and the jaw 21 is moveably mounted on end plate 12 so that it can move between an open position and a closed position. In Fig. 1, the jaw 21 is shown in its closed position. Each of the jaws 80 20, 21 has a curved part 23 which, in use, engages the side surface of a wheel tyre and a end lip 24 which engages the outer part of the rim of a wheel.

In a modification, the jaw 21 is of bifurcated 85 construction so that end lip 24 is replaced with a pair of end lips. The end lips 24 are preferably hardened.

In order to mount the jaw 21 on plate 12, the plate 12 is provided with a pair of mounting blocks 25, 26. A bolt 27 passes through aligned apertures in blocks 25 and 26 and an aperture in the base of jaw 21. The bolt 27 is secured in position by a nut 28.

The clamping mechanism further includes a lock 30 having a handle 31 and which is secured to plate 12 by a pair of screws, one of which 32 is shown in Fig. 1. The lock 30 has a shaft 33, the free end of which passes through an aperture in plate 16. A locking 100 member 34 is secured to shaft 33. The free end of member 34 provided with a spacing member 35. The spacing member 35 engages, or nearly engages, one face of plate 16. In Fig. 1, part of plate 16 is removed to expose those parts hidden behind him. A stop member 36 is welded to wall 13 to limit rotation of shaft 33.

In Fig. 1, lock 30 is shown in the position in which it retains jaw 21 in its closed posi110 tion. As shown, in this position locking member 34 engages stop member 36. In order to release jaw 21, lock 30 is unlocked and the handle 31 is then turned so that the locking member 34 moves away from stop 36 until 115 the jaw 21 can be rotated into its open position.

In Fig. 2, the wheel clamp is shown in engagement with a wheel 38 of a vehicle. In Fig. 2 the jaw 21 is in its closed position. In order to maintain the jaw 21 in this position, the handle 31 of lock 30 must be rotated into the position of Fig. 1 and then secured in this position using the lock key. The chock 10 then prevents the vehicle from being driven.

In a modification of the embodiment described above, each of the jaws 20 and 21 is moveably mounted on the chock 10 between an open position and a closed position. The lock 30 is then arranged so that it can retain both jaws in their locked positions.

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CLAIMS

- A motor vehicle wheel clamp comprising a wheel chock and means for clamping the
 chock to a motor vehicle wheel.
- A motor vehicle wheel clamp as claimed in claim 1, in which the clamping means comprises a pair of jaws mounted on the chock, at least one of the jaws being moveable between an open position and a closed position, and locking means operable to retain said at least one jaw in the closed position.
- A motor vehicle wheel clamp as claimed in claim 2, in which one of said jaws is fixedly mounted on the chock and the other of said jaws is moveable between an open position and a closed position.
- 4. A motor vehicle wheel clamp as claimed in any one of the preceding claims, in which20 chock is of triangular cross section.
 - A motor vehicle wheel clamp substantially as hereinbefore described with reference to, and as shown in, the accompanying drawings.

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